

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 03/01842

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 D05B69/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 332 685 A (SHAD PHILIP) 30 June 1999 (1999-06-30) the whole document	1
A	US 5 247 449 A (YOSHIDA NORIYUKI) 21 September 1993 (1993-09-21) cited in the application the whole document	1
A	US 4 976 552 A (ISHIKAWA SATORU ET AL) 11 December 1990 (1990-12-11) cited in the application --- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

17 September 2003

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24/09/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 008, no. 142 (E-254), 3 July 1984 (1984-07-03) -&amp; JP 59 050792 A (RICCAR SEWING MACHINE KK), 23 March 1984 (1984-03-23) cited in the application</p>	

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International Application No

PCT/GB 03/01842

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2332685	A	30-06-1999	AT 229583 T	15-12-2002
			AU 2539499 A	25-10-1999
			DE 69904459 D1	23-01-2003
			EP 1068386 A1	17-01-2001
			WO 9951807 A1	14-10-1999
US 5247449	A	21-09-1993	JP 4144591 A	19-05-1992
US 4976552	A	11-12-1990	JP 1291892 A	24-11-1989
			JP 2733769 B2	30-03-1998
JP 59050792	A	23-03-1984	NONE	